

Serial No. 10/511,107

WINTERLING et al.

PF 0000053430

## A P P E N D I X I:

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SPECIFICATION AMENDMENTS:

Amend pages 1, 2 and 5 of the specification as set forth the following:

On page 1:

- After the title and prior to the paragraph beginning in indicated line 4, insert the following section heading:

TECHNICAL FIELD

- Prior to the paragraph beginning in indicated line 13, insert the following section heading:

BACKGROUND ART

On page 2:

- Prior to the paragraph beginning in indicated line 1, insert the following section heading:

DISCLOSURE OF THE INVENTION

- Prior to the paragraph beginning in indicated line 21, insert the following section heading:

MODE(S) FOR CARRYING OUT THE INVENTION

On page 5:

- Delete the paragraph beginning in indicated line 16 and ending in indicated line 18 and insert in its stead:

Particular ~~Particular~~ oligomers which may be used are the dimers, trimers, tetramers, pentamers, or hexamers of the monomers mentioned, or of mixtures of these monomers.

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## A P P E N D I X II:

TEST REPORT:(1) Example according to application Serial No. 10/511,107

A combination of 45.3 g of caprolactam, 4 g of deionized water and 1.02 g (0.224 mol-%) of 5-hexenoic acid solution (10% in water) were heated in a laboratory autoclave under an atmosphere of nitrogen to an internal temperature of 260°C, and were kept under their own pressure for one hour and then decompressed to normal pressure within one hour and post-condensed for 60 minutes.

The resulting polyamide was extracted with boiling water to remove caprolactam and oligomers and then dried in a vacuum drying cabinet.

(2) Comparative example

Example (1) was repeated with the difference that 0.66 g (0.224 mol-%) of propionic acid solution (10% in water) were employed instead of the 5-hexenoic acid. The post-condensation time was 60 minutes.

(3) Comparative example

Example (1) was repeated with the difference that 0.65 g (0.224 mol-%) of acrylic acid solution (10% in water) was employed instead of the 5-hexenoic acid. The post-condensation time was 45 minutes.

(4) Comparative example

Example (1) was repeated with the difference that 1.04 g (0.224 mol-%) of hexanoic acid solution (10% in water) was employed instead of the 5-hexenoic acid. The post-condensation time was 60 minutes.

The dried extracted polyamides exhibited a relative solution viscosity (RV) in 96 % sulphuric acid according to DIN 51562-1 to 4 of 2.0.

The melt volume flow rate (MVR) measurements were carried out according to ISO 1133 at a temperature of 230°C and a punch weight of 2.16 kg.

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The data determined in the measurements according to ISO 1133 for MVR and according to DIN 51562-1 to 4 for RV are compiled in the following table:

Example	Acid	MVR [ml/110 min]	RV
1	5-hexenoic acid	196	2.0
2	propionic acid	181	2.0
3	acrylic acid	141	2.0
4	hexanoic acid	153	2.0

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